WHAT IS CLAIMED IS:

1.   An Internet facsimile gateway apparatus that is connected to a general switched telephone network and an IP network and relays facsimile communication between said general switched telephone network and said IP network, comprising:

first communicating means for performing procedural processing of facsimile transmission in said general switched telephone network;

second communicating means for performing procedural processing of facsimile transmission in said IP network; and

controlling means for controlling a transmission timing of a signal transmitted from said first communicating means based on a signal received by said second communicating means.

2.   The Internet facsimile gateway apparatus according to claim 1, wherein said controlling means has a pseudo signal generating means for generating a pseudo signal of a control signal to be used in procedures of facsimile transmission in said general switched telephone network, and, after said second communicating means receives a predetermined signal, transmits said pseudo signal after a predetermine time via said first communicating means.

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3. The Internet facsimile gateway apparatus according to claim 1, wherein, after said second communicating means accumulates received signals for a predetermined period of time, said controlling means transmits the accumulated signals via said first communicating means.

4. The Internet facsimile gateway apparatus according to claim 2, wherein said pseudo signal is a signal for establishing synchronism between transmission/reception apparatuses.

5. The Internet facsimile gateway apparatus according to claim 2, wherein said predetermined period of time is a length of time defined by procedures for facsimile transmission in said general switched telephone network.

6. A method for controlling an Internet facsimile gateway apparatus that is connected to a general switched telephone network and an IP network and relays facsimile communication between the general switched telephone network and the IP network, comprising:

a first communication step of performing procedural processing of facsimile transmission in said general switched telephone network;

a second communication step of performing procedural processing of facsimile transmission in said IP network; and

a control step for controlling a transmission
timing of a signal transmitted by said first
communication step based on a signal received by said
second communication step.

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7.　The method for controlling an Internet facsimile
gateway apparatus according to claim 6, wherein said
controlling step has a pseudo signal generating step
for generating a pseudo signal of a control signal to
10　be used in procedures of facsimile transmission in said
general switched telephone network, and, after said
second communicating step receives a predetermined
signal, transmits said pseudo signal after a
predetermine time by said first communicating step.

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8.　The method for controlling an Internet facsimile
gateway apparatus according to claim 6, wherein, after
said second communicating step accumulates received
signals for a predetermined period of time, said
20　controlling step transmits the accumulated signals by
said first communicating step.

9.　The method for controlling an Internet facsimile
gateway apparatus according to claim 7, wherein said
25　pseudo signal is a signal for establishing synchronism
between transmission/reception apparatuses.

10. The method for controlling an Internet facsimile
gateway apparatus according to claim 7, wherein said
predetermined period of time is a length of time
defined by procedures for facsimile transmission in
5   said general switched telephone network.

11. A computer readable recording medium that stores a
control program of an Internet facsimile gateway
apparatus that is connected to a general switched
10   telephone network and an IP network and relays
facsimile communication between the general switched
telephone network and the IP network, comprising:
    a program of a first communication step for
performing procedural processing of facsimile
15   transmission in said general switched telephone
network;
    a program of a second communication step for
performing procedural processing of facsimile
transmission in said IP network; and
20   a program of a control step for controlling a
transmission timing of a signal transmitted by said
program of said first communication step based on a
signal received by said program of said second
communication step.